

# PROMET

June 20, 2007

Mr. Mike McLaws  
Lafarge Canada Inc.  
10511, 15<sup>th</sup> St. S.E.  
Calgary, Alberta  
T2H 2H5

**Re: Noise Monitoring for Lafarge – Stoney Trail**

Dear Sir;

Attached are results of the monitoring for the period May 1 – 31, 2007 for noise and TSP and PM2.5 particulate. A B&K model 2236 meter was used for noise, and the Aerometrics Minivol model for particulate. Winds were measured with a R.M. Young Model 5103 anemometer. Precipitation was recorded with a Texas Instruments model TE25M rain gauge.

Data collection was 100% for all parameters during the monitoring period.

There were no exceedances of the city of Calgary noise bylaw.

There were no exceedances of the Alberta Air Quality Objectives for TSP. There were no Exceedances of the Canada Wide Standard for PM2.5 particulate.

Please call if there are any questions regarding the results.

Yours truly,

**PROMET ENVIRONMENTAL GROUP LTD.**



Dr. William (Bill) Murray  
President

WM/kt  
Enc.

# PROMET

## MONTHLY REPORT SUMMARY

Stoney Trail

Lafarge Canada Inc.

**Name/Location**

**Company**

May 2007

**Monitoring Period**

Continuous Ambient Monitoring				
Parameter	% Time Operational	Average	Maximum	Number of Hours above Bylaw Limit for Industrial Area
Sound	100%	40	55 dB A	0
PM2.5	100%	13	30	0
TSP	100%	53	94	0
Wind	100%	15 km/h	33 km/h	-
Precipitation	100%	0	3	-
Trailer Temperature	100%	11	29	-

Sound level is analyzed only for wind speed less than 11 km/h and precipitation less than 3 mm/hour

### COMMENTS:

The noise regulation is 85 dB A . However, the reading is not an exceedance if it is less than 5 dB above the ambient noise level.

The PM2.5 Standard is 30  $\mu\text{g}/\text{m}^3$  for the day.

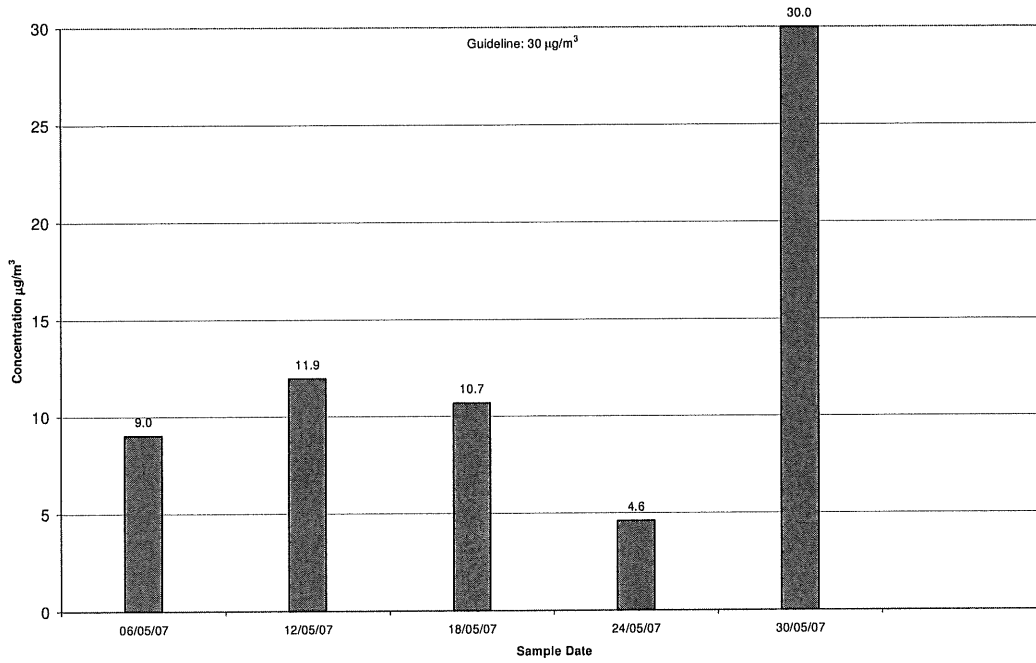
The TSP Objective is 100  $\mu\text{g}/\text{m}^3$  for the day.

One 24 hour sample of PM2.5 and TSP is taken every 6<sup>th</sup> day following the federal NAPS schedule.



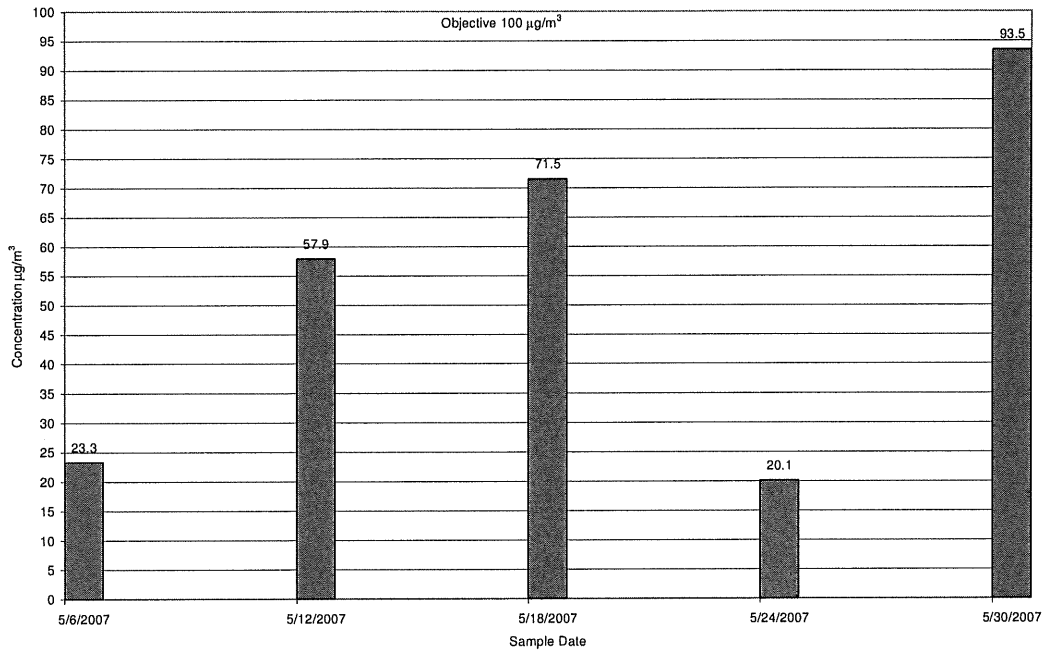
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PM2.5 at Lafarge Stoney Trail May 2007



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TSP at Lalarge Stoney Trail, May 2007



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ABSTRACT OF THE WIND  
Lafarge Canada Inc.  
Stoney Trail  
STATION 620  
MAY 2007

HOUR DAY	ALL TIMES ARE L.S.T.																								SPEED [km/h]				ANEMOMETER HEIGHT 10 m				MEAN SPD	MAX VEL	PREV DIR	MISS OBS																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	SPD	VEL	DIR	OBS																								
1	SSW	SSW	S	SSE	SSE	ENE	NNE	E	SSW	SSW	SSW	W	S	ESE	SSE	S	S	SE	ENE	NE	NE	ENE	ENE	NNE	8	16		SSW	0																							
2	NNE	NNE	N	N	NNE	NNE	N	NNE	NNE	NNE	NNE	NE	NE	NNE	NNE	NE	NE	NNE	NNE	NNE	NNE	N	NNE	12	19		NNE	0																								
3	NNE	N	NNE	N	NNE	NNE	NNE	N	N	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	18	27		SVL	0																							
4	NW	NW	NW	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	16	23		WNW	0																							
5	WSW	WSW	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	20	33		WNW	0																							
6	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	17	30		WNW	0																							
7	WNW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	19	30		W	0																							
8	W	W	WNW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	17	28		SVL	0																							
9	NW	NW	NW	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	22	31		SVL	0																							
10	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SSE	SSE	SSE	S	S	SSE	S	S	S	20	25		S	0																				
11	SSW	SW	W	W	WNW	WNW	WNW	WNW	WSW	WSW	SSW	SSW	SSE	WSW	WNW	WNW	WNW	NW	NW	NW	NW	NW	WNW	WSW	11	20		WNW	0																							
12	WNW	W	W	WNW	W	WNW	WNW	WNW	W	WSW	WSW	WNW	NW	NW	WNW	NE	NE	ENE	NE	NE	NE	NE	NE	NE	15	33		NE	0																							
13	NNE	SSE	SSE	ESE	SR	WSW	SSW	S	ESE	ESE	SE	SSE	S	S	S	S	S	S	SSW	SSW	SSW	W	W	W	13	23		S	0																							
14	W	WNW	WNW	W	WNW	NW	WNW	NW	N	NNE	NNE	NNE	WSW	NNE	ESE	E	SW	WNW	E	ESE	SE	SSE	S	SSW	9	15		SVL	0																							
15	SSW	SSW	SW	WNW	WNW	NW	WNW	NW	WNW	WSW	SSW	SW	S	SSW	S	SSW	S	S	S	SSW	S	S	SSW	S	SSW	13	24		S	0																						
16	SSW	SSW	SSW	SW	WSW	WSW	WSW	W	WSW	WSW	W	WNW	WNW	NW	WNW	WNW	WSW	W	WNW	WNW	NW	WNW	NW	WNW	NW	13	26		WNW	0																						
17	NW	WNW	WNW	WNW	NE	N	ENE	E	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSW	WNW	NW	NW	NW	N	NNE	NNE	11	21		SVL	0																							
18	NNE	NNE	NNE	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NE	ENE	E	SE	ESE	SE	SE	ESE	ESE	SE	SSE	SSE	SSE	15	26		NNE	0																							
19	SSE	S	S	S	S	S	S	S	SSW	SW	SSW	S	S	SSW	NNE	NNE	NE	ENE	E	N	WSW	WNW	WNW	19	28		S	0																								
20	WNW	WNW	WNW	WNW	N	NNE	NNE	NE	NE	ENE	ESE	ESE	SE	ESE	SSE	SSE	S	WSW	SSW	NE	NNE	NE	NE	NNE	12	19		NE	0																							
21	NNE	NNE	NE	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	N	N	N	NNE	N	WNW	WNW	WNW	WNW	NW	NW	N	NNE	17	21		NNE	0																							
22	N	N	N	N	N	N	N	N	N	NNE	N	NNE	N	NNE	NW	N	NW	W	WNW	WNW	WNW	NW	N	NNE	14	18		N	0																							
23	NNE	N	N	N	NNE	NE	NE	ENE	ENE	E	ESE	ENE	ENE	ENE	ENE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	13	19		NNE	0																							
24	NNE	NNE	NNE	NNE	NNE	N	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	N	N	NW	15	21		NNE	0																							
25	WNW	WNW	WNW	W	WSW	SW	SSW	S	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	E	ENE	E	SSE	S	S	SW	SSW	11	20		SSW	0																							
26	WSW	W	WNW	NW	NW	WNW	WNW	WNW	WSW	W	WSW	ESE	S	S	S	SSW	SW	WSW	WNW	WNW	WNW	WNW	WNW	WNW	12	20		WNW	0																							
27	WNW	NW	WNW	WNW	WNW	WNW	NW	NW	WNW	WNW	WNW	NW	NW	WNW	WNW	WNW	W	WSW	WNW	WNW	NNE	NNE	NNE	N	N	16	22		WNW	0																						
28	WNW	WNW	N	N	N	N	N	N	N	NNE	N	NNE	N	NNE	N	NNE	N	NNE	N	NNE	N	NNE	N	NNE	N	21	28		NNE	0																						
29	N	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NE	NE	ENE	E	E	E	ESE	SE	SSE	S	SSW	SSW	13	18		N	0																							
30	SSW	SSW	SW	WSW	W	W	WSW	SSW	SSW	S	SSE	SE	SSE	SE	SSE	SSE	S	S	S	SSE	S	SSW	SSW	SSW	13	23		SSW	0																							
31	SSW	SW	SW	WSW	WNW	W	W	WNW	WNW	N	NE	NE	ENE	E	E	ESE	ESE	SE	SSE	SSE	SSE	SSW	SSW	SSW	13	20		SSW	0																							
MEAN																									14	14	13	13	13	13	14	15	15	15	15	16	16	16	17	17	17	17	16	15	13	13	13	14	15	33	WNW	0
NOTE:	Missing data represented by M; no clear prevailing direction represented by SVL; calm winds represented by CALM																																																			
Date of Last Calibration	060221																								Make and Model of Instrument:				RM Young5103				WS UPTIME 100 %				WD UPTIME 100 %															

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®

FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION  
 Lafarge Canada Inc.  
 Stoney Trail  
 STATION 620  
 MAY 2007

SPEED [km/h]	WIND DIRECTION																TOTAL	PCT
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW		
< .5																	0	0
1 - 5	3	2	2	2	1	0	0	3	0	1	0	2	1	0	0	0	17	2
6 - 11	8	26	8	9	11	11	10	9	14	15	7	23	29	36	16	9	241	32
12 - 19	43	54	17	8	4	8	8	13	28	22	10	9	14	51	32	15	336	45
20 - 28	15	28	5	0	1	0	0	7	21	10	0	3	7	28	3	10	138	19
29 - 38	1	2	2	1	0	0	0	0	0	0	0	0	1	4	1	0	12	2
TOTAL	70	112	34	20	17	19	18	32	63	48	17	37	52	119	52	34	744	100
PERCENT	9	15	5	3	2	3	2	4	8	6	2	5	7	16	7	5		
AVERAGE	16	16	15	12	11	12	11	14	17	14	12	11	13	16	14	15	15	

18 JUN 2007 1343





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PRECIPITATION [mm]  
 Lafarge Canada Inc.  
 Stoney Trail  
 STATION 620  
 MAY 2007

Day	Hour																								Tot	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3	0	0	0	0	0	0	0	0	0	0	1	2	3	1	1	0	1	1	0	0	0	0	0	0	0	11
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	6
21	1	1	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	6
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	2	2	3	2	0	0	0	0	0	0	0	0	0	0	0	9
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	1	1	0	0	0	0	1	0	0	2	5	8	6	3	1	1	1	0	1	1	1	1	1	1	0	0
MAX	1	1	0	0	0	0	0	0	0	1	2	3	3	2	0	1	1	0	1	1	1	1	1	1	0	0

Percent of time operational: 100 M - missing data  
 Monthly Total: 37 Maximum in an hour: 3  
 Year to Date: 58

